

Versailles Municipal Utilities Water Quality Report for year 2014

196 South Main

Versailles, KY 40383

Meetings: City Council Chambers 196 South Main Street

Meeting Dates and Time: 1st & 3rd Tuesday of each month 5:30 PM

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quality product. Water is the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system. Versailles is a surface water treatment plant which obtains raw water from Pool 5 of the Kentucky River and is treated at our plant on US 62 West in Woodford County. When needed, we also obtain additional treated water from Kentucky American Water Co. in Lexington, Kentucky. The Versailles water treatment plant is capable of treating 7,000 gallons of water per minute (10 million gallons per day). Based on a vulnerability assessment, our level of susceptibility was determined to be moderate. Potential sources of contamination in the source water area include agricultural runoff and two bridges that span the river, where

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high

accidents may occur. The complete source water assessment plan can be viewed at the Versailles Municipal Utilities office at 196 South Main Street, Monday through Friday 8am-4pm.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. If present, elevated levels of lead can MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is for pregnant women and young children. no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two the potential for lead exposure by flushing years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 before using water for drinking or cooking. years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers. Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Information About Lead:

cause serious health problems, especially Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize your tap for 30 seconds to 2 minutes If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Kentucky Rural Water Association

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old.

	95% of monthly samples		Highest Single Measurement		Lov Mon	vest thly %	Violation	Likely Source		
Turbidity (NTU) TT * Representative samples of filtered water					100		No	Soil runoff		
Regulated Contamina	nt Test R	esults								
Contaminant [code] (units)	MCL	MCLG	Report Level	<u> </u>		Date of Sample	Violation	Likely Source of Contamination		
Microbiological Cont	aminants									
Total Coliform Bacteria # or % positive samples	1	0	1	N/A		2014	No	No Naturally present in the environment		
Inorganic Contamina	nts								•	
Barium [1010] (ppm)	2	2	0.01	0.01	to (0.01	Mar-14	No	Drilling wastes; metal refineries; erosion of natural deposits	
Copper [1022] (ppm) sites exceeding action level	AL = 1.3	1.3	0.09 (90 th percentile)	0.02	to ().22	Jul-14	No	Corrosion of household plumbing systems	
Cyanide [1024] (ppb)	200	200	12	12	to	12	Feb-14	No	Discharge from steel/metal factories; plastic and fertilizer factories	
Fluoride [1025] (ppm)	4	4	0.85	0.85	to ().85	Mar-14	No	Water additive which promotes strong teeth	
Lead [1030] (ppb) sites exceeding action level	AL = 15	0	3 (90 th percentile)	2	to	8	Jul-14	No	Corrosion of household plumbing systems	
Nitrate [1040] (ppm)	10	10	0.61	0.61	to ().61	Feb-14	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfec	tion Bypr	oducts and I	Precursors						•	
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)		N/A	1.34 (lowest average)	1.00	to 1	1.95 os)	2014	No	Naturally present in environment.	
*Monthly ratio is the % TOO	removal acl	hieved to the %	ΓOC removal	required. A	Annual av	erage mu	st be 1.00 or g	reater for co	mpliance.	
Chloramines (ppm)	MRDL = 4	MRDLG = 4	1.94 (highest average)	0.5	to	3.7	2014	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	28 (high site average)	7 (range of	to individua	48 al sites)	2014	No	Byproduct of drinking water disinfection	
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	43 (high site average)	8 (range of	to individua	64 al sites)	2014	No	Byproduct of drinking water disinfection.	
Unregulated Contaminants (UCMR 3)			average	range (ppb)			date			
vanadium			0.340	0.24).44	Oct-14	1		
strontium			175.000	120		230	Oct-14	1		
chromium-6			0.035	0.032		.037	Oct-14	1		
total chromium										

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.

Fluoride (added for dental health)	Average	Range of Detection			
Fluoride (added for dental health)	1.0	0.87	to	1.34	
Sodium (EPA guidance level = 20 mg/L)	10.0	10	to	10	

Notice of Violation. Violation # 2014 - 9950612

Failed to submit Monthly Operating Report for July 2014 within 10 days after the end of the compliance period.

Monthly Operating Report was sent to Division of Water.

No health effects.

Notice of Violation. Violation # 2014 - 9950613 Failed to make the eCCR URL one click for 2013.

The eCCR URL now takes the customers directly to the CCR.

No health effects.